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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,969	10/01/2004	Michael Thomas Hauke	PU020085	9986

7590 06/11/2010  
Joseph S Tripoli  
Thomson Licensing Inc  
P O Box 5312  
Princeton, NJ 08543-5312

EXAMINER
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YENKE, BRIAN P

ART UNIT	PAPER NUMBER
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2622

MAIL DATE	DELIVERY MODE
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06/11/2010

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/509,969	<b>Applicant(s)</b> HAUKE ET AL.	
	<b>Examiner</b> BRIAN P. YENKE	<b>Art Unit</b> 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on Amendment (03/18/10).
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                        |                                                                   |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____                                                            | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims have been considered but they are not persuasive.

#### ***Applicant's Arguments***

a) The applicant states that Van Der Wal does not show/suggest the controller or storing a signal processing characteristic as claimed.

b) The applicant also states that Gatto does not recite the controller limitation as claimed.

#### ***Examiner's Response***

a) The examiner notes that some of the above limitations were rejected in combination with Gatto and Ju, thus Van Der Wal as admitted by the examiner does not anticipated the invention.

b) The examiner notes a 103 rejection was made, where Van Der Wal was modified with Gatto for a system which can have it's modules/devices connected and be selectively routed to the correct bus/processing (analog or digital).

As stated below both Gatto and Ju et al., disclose the use of USB and IEEE-1394 communication protocol in receiving/transmitting information between devices. Gatto is a system which is modular (para 043) which the user may customize and/or upgrade, these devices that are removed and/or installed are in communication with the system to ensure the are routed to the appropriate bus (i.e. analog or digital).

In addition Ju discloses a function-extending module where the modules and base module are in communication, which also provides the user the ability to upgrade modules (para 077).

Thus the combination of Van Der Wal which discloses an programmable interface when components are added or removed from the system and Gatto/Ju provide a system which allows the addition/removal of modules and routes the signals using the appropriate communication protocol.

***Claim Rejections - 35 USC § 103***

2. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Der Wal et al., US 6,188,381 in view of Gatto et al., US 2006/0026637 and Ju et al., US 2002/0008779.

In considering claims 1 and 12,

a)-b) the claimed a first module...is met by processor motherboard (PM) 10 (which include signal processors 1-4 (Fig 1) which communicate with Video Processor Motherboards (20) (Fig 1, col 5, line 66 to col 7, line 31) (i.e. the second module) using the global control bus 40 and the global video bus 30. Van Der Wel discloses the use of a non-volatile memory 338 which is used for program and data storage for embedded startup and execution (col 15, line 49-67), which allows the system to be changed based on the requirements for the application program (col 18, line 12-55).

Regarding the input—output characteristic, although the examiner believes that a system that can reconfigure it's hardware/software settings based upon newly added/disconnected modules, the examiner will nonetheless incorporate Gatto, US 2006/0026637 which discloses that a system may have it's modules/devices connected which can be connected to the analog and/or digital bus (para 008), wherein the selection (switching) the device to the correct buse(s) can be performed.

As described in applicant's disclosure the sensing of an analog or digital signal pertains to the coupling characteristic, thus met by the combination above.

The examiner will also incorporate the A/V module extension as disclosed by Ju et al., US 2002/0008779, which discloses the conventional features of having a based module which transmits/receives data from function extension modules.

The combination of Van Der Wal and Gatto which discloses the use of a modular system using analog and/or digital components/buses would be motivated by Ju et al., to incorporate the function extension feature as taught by Ju to afford easier control of multiple devices, whether home or away.

Regarding the new amended means for determining and means for selecting both Gatto and Ju disclose the use of IEEE-1394 and/or USB communication interface in connecting/communicating between devices.

In considering claims 2 and 8, 13-14, 16-17 and 19-20,

As stated above the PM 10 determines/detects which VPM's to activate in order to determine which program(s)/hardware/software to control based upon startup and execution.

Both Gatto/Ju disclose the concept of establishing communication protocol.

In considering claim 15,

In addition to that already stated above (claim 1), both Gatto/Jun establish communication with a device, wherein Gatto discloses the concept of connecting to an analog and/or digital bus, and Jun discloses the concept of function extension modules being inserted/removed wherein communication between the base module and function modules is carried out (notably IEEE-1394).

In considering claim 21,

As stated above (claim 1), Van Der Wal discloses allowing programming of the hardware as components are added and subtracted (see abstract) for the video processing system for different application.

Regarding the enabling access, since the use of A/V devices within a household are typically used by more than one person, the non-accessibility of some characteristics would be obvious to one of ordinary skill in the art, most notably parent-child scenario.

In considering claim 23,

As disclosed by Van Der Wal, only the software/hardware that is required is utilized, thereby inhibiting access to all but said claimed least predetermined one of the processing characteristics.

In considering claim 24,

Refer to claim 2 above.

In considering claims 3-5 and 6, 18 and 22,

Van Der Wal does not specifically disclose the components of the system including a personality pin, coupling characteristic, LUT measurement/comparison, or field programmable gate array.

Van Der Wal discloses a system which includes a primary motherboard 10 which includes 4

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digital signal processor's which control for display a variety of video processor motherboards 20 utilizing the global control bus 40 and the global video bus 30. Thus it would have been obvious to use active and/or passive circuitry in the design of the modular parallel-pipelined vision system, since the designer has to active/passive components which are available off the shelf.

The detection/determination of modules based upon a node potential, coupling characteristic, or LUT measurement/comparison which provide the designer available methods/devices in monitoring/detection controlling the system.

In considering claims 7, 9 and 10,

Van Der Wal discloses the various embodiments of a active/passive combination backplanes and also the use of passive backplanes where it is thus known that the use of active and/or passive only components in the design of a system is optional/design choice, being obvious to one of ordinary skill in the art.

In considering claim 11,

Van Der Wal discloses the term video in the disclosure, but does not explicitly recite the conventional accommodation of audio where it is known that based upon the type of video signal utilized, the accompanying audio would be beneficial and thus processed by a system, or alternatively on providing the audio for sound/music application would obviously be an obvious implementation to one of ordinary skill in the art.

In considering claim 18,

The selling price of a unit in regards to access, is not inventive since compatibility between modules, if they are connected will have access based on the module type and input/output characteristics, price being a factor which changes the unit's cost, not the compatibility between devices.

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(571)-273-8300**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

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/BRIAN P. YENKE/  
Primary Examiner, Art Unit 2622

B.P.Y.  
24 May 10